| NNN | | NNN | CC | cccccc | ccc | PPPPPP | PPPPP |
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| NNN | | NNN | 222 | | | PPP | PPP |
| NNNN | JAJ | NNN | 222 | | | PPP | PPP |
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| | | NNN | 000 | | | PPP | PPP |
| NNNN | | NNN | CCC | | | PPP | PPP |
| NNN | NNN | NNN | CCC | | | PPPPPP | |
| NNN | NNN | NNN | CCC | | | PPPPPP | |
| NNN | NNN | NNN | CCC | | | PPPPPP | PPPPP |
| NNN | NA | INNNN | CCC | | | PPP | |
| NNN | NA | INNNN | CCC | | | PPP | |
| NNN | NN | INNNN | CCC | | | PPP | |
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VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1

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```
0 %TITLE 'Load Parse States and Data'
0 MODULE NCPSTALOA (IDENT = 'V04-000', LIST(NOOBJECT)) =
```

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! ++ FACILITY: Network Control Program (NCP)

ABSTRACT:

States and data for the parsing of NCP load commands

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Darrell Duffy , CREATION DATE: 25-September-79

MODIFIED BY:

V03-002 RPG0002 Bob Grosso 10-Jun-1983

Add UNA as a service device.

V03-001 RPG0001 29-Apr-1983 Bob Grosso

Add Physical address.

V004 TMH0004 31-Dec-1981 Tim Halvorsen Add DMF32 as a service device.

vC33 TMH0003 Tim Halvorsen 15-Aug-1981 Add DMP, DMV and DPV service devices.

V002 Tim Halvorsen 14-Jul-1981 Add reference to SEM_LINE_ID macro, in order for SE_CIRC_ID to work.

| NCPSTALOA V04-000 | Load Parse States and | i Data | M 1 16-Sep-1984 00:35:01 14-Sep-1984 12:48:24 | VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1 | Page 2 (1) |
|----------------------------|---------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------|---------------|
| 58 59 60 61 62 | 0058 1 ! 0059 1 ! v001 0060 1 ! 0061 1 ! 0062 1 ! | TMH0001 Change BUILD Change to lo | Tim Halvorsen 22-Jun-1981 _SDB reference to use full entity ad via circuit, not line. | type field. | |

| NCPSTALOA VO4-000 | Load Parse States and Data Definitions | N 1 16-Sep-1984 00:35:01 14-Sep-1984 12:48:24 | VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1 | Page 3 (2) |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------|
| 64 65 66 67 68 69 70 71 73 74 75 76 77 | 0063 %SBTTL 'Definitions' 0064 0065 0066 INCLUDE FILES: 0067 0068 0069 | ! External symbols for | action routines | |

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NCPSTALOA
                         Load Parse States and Data
                                                                                                     16-Sep-1984 00:35:01
                                                                                                                                           VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1
V04-000
                         Parameter blocks
                                                                                                     14-Sep-1984 12:48.24
                         0078
0079
                                 1 %SBTTL 'Parameter blocks'
      81
      82
83
84
                         0800
                         0081
0082
0083
                                 1 ! BIND DATA:
      85
86
87
                         0084 1 !
0085 1 !
                                                  Parameter Blocks
      88
89
                         0086
0087
      90
                      P 0088
                                                  BUILD_PCL
      91
92
93
94
95
                      P 0089
                      P 0090
                                                  (LOA.
                      P 0091
                      P 0092
P 0093
                                                                           PCNO_SLI. . PCNO_SPA. .
                                                  SLI, TKN,
SPW, HXPS,
      96
97
                      P 0094
                                                  SDV, NUMB,
                                                                            PCNO_SDV. ,
                                                                           PCNO_CPU,
PCNO_LOA,
PCNO_SLO,
PCNO_TLO,
PCNO_STY,
PCNO_STY,
PCNO_SID,
PCNO_IHO,
                      P 0095
                                                  CPU, NUMB,
                      P 0096
      98
                                                  LFL, TKN,
      99
                      P 0097
                                                  SLF. TKN.
    100
                      P 0098
                                                  TLF, TKN,
                      P 0099
    101
                                                  STY, NUMB,
    102
                      P 0100
                                                  SID, TKNQ,
    103
                      P 0101
                                                  HOS, NADR,
                     P 0102
P 0103
    104
                                                                            PCNO_NNA,
                                                  NAM, TKN,
    105
                                                  ADR, NUMW,
                                                                            PCNO_ALD. . PCNO_PHA. .
                      P 0104
    106
                                                  PHA, NIADR,
    107
                      P 0105
                     P 0106
    108
                                                    ,END, , ,
    109
                      P 0107
    110
                         0108
                                                  )
    111
                         0109
    112
                     P 0110
                                                  BU!LD_PCL
                     P 0111
                     P 0112
P 0113
    114
                                                  (LOV.
    115
                                                                           PCNO_SPA, LOA_SPW, PCNO_SDV, LOA_SDV, PCNO_CPU, LOA_CPU, PCNO_LOA, LOA_LFL, PCNO_SLO, LOA_SLF, PCNO_SLO, LOA_STF, PCNO_STY, LOA_STY, PCNO_STD, LOA_STD, PCNO_IHO, LOA_HOS, PCNO_NNA, LOA_NAM, PCNO_PHA, LOA_PHA,
                     P 0114
                                                  SPW, HXPS,
    116
                      P 0115
                                                  SDV. NUMB.
    117
                      P 0116
                                                  CPU, NUMB,
    118
                                                  LFL, TKN,
SLF, TKN,
    119
                      P 0117
    120
                      P 0118
    121
122
123
124
125
126
127
128
129
                      P 0119
                                                  TLF, TKN,
                                                  STY, NUMB.
                      P 0120
                     P 0121
P 0122
P 0123
                                                  SID, TKNQ,
HOS, NADR,
                                                  NAM, TKN,
                     P 0124
P 0125
                                                  ADR, NUMW,
                                                  PHA, NIADR,
                     P 0126
P 0127
P 0128
                                                    ,END, , ,
                     0129
0130
P 0131
    131
132
133
134
135
                                                  BUILD_PBK
                     P 0132
P 0133
                                                  (LOA,
    136
                      P 0134
```

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VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1

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Ç 2
                                                                                                                                                                                              16-Sep-1984 00:35:01
14-Sep-1984 12:48:24
NCPSTALOA
                                               Load Parse States and Data
V04-000
                                               Parameter blocks
                                              0135
0136
0137
0138
0139
        NOD, NADR, , VRB_ENT,
                                                                                               SLI, TKN, , , SPW, HXPS, , ,
                                         P
                                         P
                                                                                              LFL, TKN, , , SLF, TKN, , ,
                                         Ρ
                                                                                              TLF, TKN,
HOS, NADR,
                                         P
                                               2140
                                         P
                                               0141
                                              0142
                                                                                              NAM, TKN, , , ADR, NUMW, ,
                                         P
                                         Ρ
                                              0144
                                         P
                                                                                               PHA, NIADR, , ,
                                                                                             SDVP, LITB, NMA$C_SOFD_DP, LOA_SDV, SDVU, LITB, NMA$C_SOFD_DU, LOA_SDV, SDVL, LITB, NMA$C_SOFD_DL, LOA_SDV, SDVQ, LITB, NMA$C_SOFD_DQ, LOA_SDV, SDVA, LITP, NMA$C_SOFD_DA, LOA_SDV, SDVUP, LIB, NMA$C_SOFD_DMC, LOA_SDV, SDVMC, LITB, NMA$C_SOFD_DMC, LOA_SDV, SDVTE, LITB, NMA$C_SOFD_DTE, LOA_SDV, SDVKL, LITB, NMA$C_SOFD_DTE, LOA_SDV, SDVMP, LITB, NMA$C_SOFD_DMP, LOA_SDV, SDVMV, LITB, NMA$C_SOFD_DMV, LOA_SDV, SDVMV, LITB, NMA$C_SOFD_DMV, LOA_SDV, SDVMV, LITB, NMA$C_SOFD_DMF, LOA_SDV, SDVMF, LITB, NMA$C_SOFD_UNA, LOA_SDV, SDVUN, LITB, NMA$C_SOFD_UNA, LOA_SDV,
                                              0146
0147
0148
0149
0151
0153
0155
0157
        158
159
        160
161
162
163
                                              0158
0159
                                               0160
                                                                                                                     LITB, NMA$C_CPU_8, LOA_CPU,
LITB, NMA$C_CPU_11, LOA_CPU,
LITB, NMA$C_CPU_1020, LOA_CPU,
LITB, NMA$C_CPU_VAX, LOA_CPU,
                                               0161
                                                                                               CPU8,
CPU11,
                                              0162
0163
        164
        165
                                                                                               CPU10.
                                              0164
0165
        166
        167
                                              0166
0167
                                                                                              STSL, LITB, NMA$C_SOFT_SECL, LOA_STY, STTL, LITB, NMA$C_SOFT_TERL, LOA_STY, STOS, LITB, NMA$C_SOFT_OSYS, LOA_STY,
        168
        169
        170
171
172
173
174
175
176
177
                                               0168
                                              0169
0170
0171
                                                                                               SID, TKNQ, , ,
                                              0172
0173
                                                                                               )
                                              0174
                                                                                               BUILD_SDB
        178
179
                                               0176
0177
                                                                                               (LOA, NMASC_ENT_NOD, VRB_ENT, LOA)
        180
181
182
                                              0178
0179
                                                                                               BUILD_SDB
                                               0180
                                                                                               (LOV, NMASC_ENT_NOC, LOA_SLI, LOV)
```

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NCPSTALOA
V04-300
                     Load Parse States and Data
State Table Entry
                                                                                                                      VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1
                             1 %SBTTL 'State Table Entry'
                     $INIT_STATE (NCP$G_STIBL_LOA, NCP$G_KYTBL_LOA);
                                           Load Command
                                           Dispatch to entity types and prompt if end of string
                                           COMMAND PROMPT (LGA, ENT, NCP$_INVKEY,
                                           ('NODF', ST_LOA_NOD), ('VIA', ST_LOA_VIA)
                    0217
0218
0219
0220
0221
02223
0223
0223
0223
                                           Obtain Node In
                                           COMMAND_PROMPT (LOA, NOD, NCPS_INVVAL,
                                           ( (SE_NODE_ID), , ACT$SAVPRM, , , PBK$G_LOA_NOD)
                    0227
0228
0229
0230
                                           )
                               $STATE
                                           ( (ST_LOA_PRM) )
                     0231
                               $STATE
                                           (TPAS_EOS, TPAS_EXIT, ACTSVRB_UTILITY, , , SDB$G_LOA)
```

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NCPSTALOA
VO4-000
                          Load Parse States and Data State Table Entry
                                                                                                                                                VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPSTALOA.B32;1
                                                                                                                                                                                                           Page
                         0237
0238
0238
02340
02443
02443
02443
    24454567890123456789
2434567890123456789
                                                    Load over specified circuit
                                                    COMMAND_PROMPT (LOA, VIA, NCPS_INVVAL,
                                                    ( (SE_CIRC_ID), , ACT$SAVPRM, NMA$C_ENT_CIR, NCP$GL_OPTION, PBK$G_LOA_SLI)
                      P 0245
0247
P 0248
P 0250
0251
P 0253
0254
                                                    );
                                    1 SSTATE
                                                    ((ST_LOA_PRM))
                                    1 SSTATE
                                                    (TPAS_EOS, TPAS_EXIT, ACTSVRB_UTILITY, , , SDB$G_LOV)
```

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G 2
16-Sep-1984 00:35:01
14-Sep-1984 12:48:24
NCPSTALOA
VO4-000
                      Lcad Parse States and Data
Load Parameters
                                                                                                                              VAX-11 BL'ss-32 V4.0-742
[NCP.SRC]NCPSTALOA.B32;1
                                                                                                                                                                                 Page
                      0255
0257
0258
0259
0260
0261
0263
    1 %SBTTL
                                              'Load Parameters'
                                              Load Parameters
                                             (ST_LOA_PRM, (TPA$_EOS, TPA$_EXIT, ACT$SAVPRM, , , PBK$G_VRB_ALL), (TPA$_LAMBDA)
                                 SSTATE
                       0264
                       0265
0266
0267
                               1 XSBTTL
                                              'Dispatch States'
                       0268
                       0269
0270
0271
                                              Dispatch states
                    0272
P 0273
                                 $STATE (ST_LOA_PRC,
                    P 0274
P 0275
                                              DISPATCH_STATES (LOA,
                    P 0276
P 0277
                                              ADR, 'ADDRESS', CPU, 'CPU',
                    P 0278
                    P 0279
                                                    FROM
                    P 0280
                                              LFL,
HOS,
                                                    'HOST'
                    P 0281
                                                    'NAME'
                                             NAM,
                    P 0282
                                             PSW.
                                                     'PASSWORD',
'PHYSICAL',
                    P 0283
                    P 0284
                                              PHA,
                                                     SECONDARY .
                    P 0285
                                              SLF.
                                             SVC.
                    P 0286
                                                     'SERVICE'
                                                    SOFTWARE
                                             SOF, 'SOFTWARE', TLF, 'TERTIARY', SLI, 'VIA',
                    P 0287
                    P 0288
                    P 0289
                    P 0290
                    P 0291
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P 0292

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(TPAS_EOS, TPAS_EXIT)

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|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------|
| NCPSTALOA Load Parse States and Data VO4-000 Process States | | | H 2 16-Sep-1984 00:35:01 14-Sep-1984 12:48:24 | VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1 | Page 10 (8) |
| : 302 : 303 | 0295 1 %SB*TL 0296 1 | 'Process States' | | | |
| 304 305 306 307 | 0298 1 1 0299 1 | Process States | | | |
| 307 308 309 | 0300 1 P 0301 1 P 0302 1 | PROCESS_STATES (LOA, | | | |
| 303 304 305 306 309 3112 3114 3116 3117 3117 3117 3117 3117 3117 3117 | 0295 1 %SB*TL 0296 1 0297 1 ! 0298 1 ! 0299 1 ! 0300 1 P 0301 1 P 0302 1 P 0303 1 P 0304 1 P 0305 1 P 0306 1 P 0307 1 P 0310 1 P 0311 1 P 0312 1 P 0313 1 P 0314 1 P 0315 1 P 0316 1 P 0319 1 0320 1 | ADR. CPU. LFL. HOS. NAM. PSW. PHA. ADDRESS'. SLF. 'LOADER'. SDV. SID. SLI. SPW. STY. TLF. LOADER'.) | | | |
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| NCPSTALOA VO4-000 | Load Parse States | tes and Data | I 2 16-Sep-1984 00:35:01 14-Sep-1984 12:48:24 | VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1 |
|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
| | | Dispatch for service (ST_LOA_PRC_SVC, DISPATCH_STATES (LOA, SDV, 'DEVICE', SPW, 'PASSWORD',)); Dispatch for software (ST_LOA_PRC_SOF, DISPATCH_STATES (LOA, SID, 'IDENTIFICATION', STY, 'TYPE',)); | 16-Sep-1984 00:35:01 14-Sep-1984 12:48:24 | VAX-11 BLiss-32 V4.0-742 [NCP.SRC]NCPSTALOA.B32;1 |
| | | | | |

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Page 12 (10)

| NCPSTALOA | Load Parse Sta | ates and Data | 16-Sep-1984 00:35:01 | VAX-11 Bliss-32 V4.0-742 |
|--------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------|------------------------------------------------------|--------------------------|
| V04-000 | Define Subexp | ressions from Library | 14-Sep-1984 12:48:24 | [NCP.SRC]NCPSTALOA.B32;1 |
| ; 387 ; 388 ; 389 | 0377 1 %SBTTI 0378 1 0379 1 ! | | • | |
| 387 388 389 390 391 393 395 395 396 398 | 0379 1 ! 0380 1 ! 0381 1 ! 0382 1 0383 1 0384 1 | Define subexpression | s from library | |
| 393 | 0383 1 | SEM_LOAD (LOA) | ! Special load parameter decod | ling |
| 394 | 0384 1 | SEM_FILE_ID | ! File id strings | |
| 395 | 0385 1 | SEM_HEX_PSW | ! Hex password | |
| 396 397 398 | 0386 1 0387 1 0388 1 | SEM_CIRC_ID SEM_LINE_ID SEM_NODE_ID | Circuit name strings Line ID strings Node id strings | |
| 399 | 0389 1 | SEM QUOT STR | Quoted strings | |
| 400 | 0390 1 | SEM NI ADR | NI address | |

NCPSTALOA V04-000 Load Parse States and Data Object Listing of Parse Table VAX-11 Bliss-32 V4.0-742 LNCP.SRCJNCPSTALOA.B32;1 Page 14 (12) 1 %SBTTL 'Object Listing of Parse Table' 0391 1 %SBTTL 0392 1 0393 1 END 0394 0 ELUDOM 402 403 404 405 !End of module

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